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Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/779,957
		Filing Date	February 9, 2001
		First Named Inventor	Kristi D. Snell
		Group Art Unit	1632
		Examiner Name	
Attorney Docket Number	MBX 038		
Sheet	1	of	8

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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	US Patent Document		Name of Patentee or Applicant of Cited Document	Date of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
✓	6	5,004,863		Umbeck	04-02-1991	
✓		5,015,580		Christou, et al.	05-14-1991	
✓		5,016,944		Brubash	05-14-1991	
✓		5,024,944		Collins, et al.	06-18-1991	
✓		5,030,572		Power, et al.	07-09-1991	
✓		5,034,322		Rogers	07-23-1991	
✓		5,159,135		Umbeck	10-27-1992	
✓		5,169,770		Chee, et al.	12-08-1992	
✓		5,188,958		Moloney, et al.	02-23-1993	
✓		5,231,019		Paszowski	07-27-1993	
✓		5,268,463		Jefferson	12-07-1993	
✓		5,276,268		Strauch, et al.	01-14-1994	
✓		5,322,783		Tomes, et al.	06-21-1994	
✓		5,364,780		Hershey et al.	11-15-1994	
✓		5,416,011		Hinchee, et al.	05-16-1995	
✓		5,420,034		Kridl, et al.	05-30-1995	
✓		5,463,174		Moloney, et al.	10-31-1995	
✓		5,464,765		Coffee, et al.	11-07-1995	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
✓	6	EP	0 486 233	A2	Pioneer Hi-Bred Intl, Inc.	05-20-1992		
✓		EP	0 530 129	A1	Danisco A/S	03-03-1993		
✓		EP	0 604 662	A1	Japan Tobacco, Inc.	07-06-1994		
✓		WO	91/00917	A1	Mass. Inst. of Tech.	01-24-1991		
✓		WO	93/20216		University Technologies International, Inc.	10-14-1993		

Examine Signature	<i>Shirley Brown</i>	Date Considered	10/1/02
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Sheet	2	of	8	Attorney Docket Number	MBX 038

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		Number	Kind Code ² (if known)			
✓ b		5,472,869		Krzyzek et al.	12-05-1995	
✓		5,519,164		Müllner, et al.	05-21-1996	
✓		5,527,695		Hodges, et al.	06-18-1996	
✓		5,530,196		Fraley, et al.	06-25-1996	
✓		5,538,877		Lundquist, et al.	07-23-1996	
✓		5,538,880		Lundquist et al.	07-23-1996	
✓		5,608,152		Kridl, et al.	03-04-1997	
✓		5,629,183		Saunders et al.	05-13-1997	
✓		5,650,554		Moloney	07-22-1997	
✓		5,668,298		Waldron, et al.	09-16-1997	
✓		5,750,848		Kruger et al.	05-12-1998	
✓		5,767,378		Bojsen et al.	06-16-1998	
✓		5,777,200		Ryals et al.	07-07-1998	
✓		5,834,237		Jacobs et al.	11-10-1998	
✓		6,011,144		Steinbuechel et al.	01-04-2000	

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b		WO	94/00977	A1	Japan Tobacco, Inc.	01-20-1994		
		WO	95/21249		Scripps Research Inst	08-10-1995		
		WO	98/06854	A1	Monsanto Company	02-19-1998		
		WO	98/36078	A1	James Madison University	08-20-1998		
		WO	98/00557		Monsanto Company	01-08-1998		
		WO	99/14313	A1	Metabolix, Inc.	03-25-1999		

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✓		BANJOKO & TRELEASE, "Development and application of an in vivo plant peroxisome import system," <i>Plant Physiol.</i> 107:1201-08 (1995).
✓		BARTON, et al., "Bacillus thuringiensis δ -endotoxin expressed in transgenic <i>Nicotiana tabacum</i> provides resistance to Lepidopteran insects," <i>Plant Physiol.</i> 85:1103-09 (1987).
✓		BEVAN, et al., "Structure and transcription of the nopaline synthase gene region of T-DNA," <i>Nucleic Acids Res.</i> 11:369-85 (1983).
✓		BROWN, et al., "Cloning and characterization of the katB gene of <i>Pseudomonas aeruginosa</i> encoding a hydrogen peroxide-inducible catalase: purification of KatB, cellular localization, and demonstration that it is essential for optimal resistance to hydrogen peroxide," <i>J. Bacteriol.</i> 177:6536-44 (1995).
✓		CHONG, et al., "Protein splicing involving the <i>Saccharomyces cerevisiae</i> VMA intein," <i>J. Biol. Chem.</i> 271:22159-22168 (1996).
✓		CHONG, et al., "Protein splicing of the <i>Saccharomyces cerevisiae</i> VMA intein without the endonuclease motifs," <i>J. Biol. Chem.</i> 272:15587-15590 (1997).
✓		CUBITT, et al., "Understanding, improving and using green fluorescent proteins," <i>Trends Biochem. Sci.</i> 20(11):448-55 (1995).
✓		DALE & OW, "Gene transfer with subsequent removal of the selection gene from the host genome," <i>Proc. Natl. Acad. Sci. USA.</i> 88(23):10558-62 (1991).
✓		DASGUPTA, et al., "Co-ordinated expression of multiple enzymes in different subcellular compartments in plants," <i>The Plant Journal</i> 16:107-16 (1998).
✓		DIRUSSO, "Primary sequence of the <i>Escherichia coli</i> fadBA operon, encoding the fatty acid-oxidizing multienzyme complex, indicates a high degree of homology to eucaryotic enzymes," <i>J. Bacteriol.</i> 172:6459-68 (1990).

Examiner's Signature	<i>[Signature]</i>	Date Considered	01/10/02
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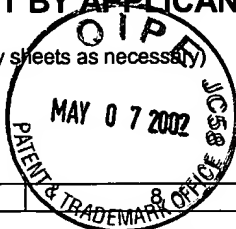
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		Filing Date	February 9, 2001
		First Named Inventor	Kristi D. Snell
		Group Art Unit	1632
		Examiner Name	
Sheet 4 of 8	Attorney Docket Number	MBX 038	



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Examiner's Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
✓		DMOCHOWSKA, et al., "Structure and transcriptional control of the <i>Saccharomyces cerevisiae</i> POX1 gene encoding acyl-coenzyme A oxidase," <i>Gene</i> 88:247-52 (1990).
✓		FALCO, et al., "Transgenic canola and soybean seeds with increased lysine," <i>Bio/Technology</i> 13:577 (1995).
✓		FROMM, et al., "Inheritance and expression of chimeric genes in the progeny of transgenic maize plants," <i>Biotechnology</i> 9(Y). 8(9):833-39 (1990).
✓		GASSER & FRALEY, "Genetically Engineering Plants for Crop Improvement," <i>Science</i> 244:1293-1299 (1989).
✓		HAHN, Ph.D. Thesis, University of Minnesota (Feb. 1998).
✓		HAPLIN, et al., "Self-processing 2A-polyproteins – a system for co-ordinate expression of multiple proteins in transgenic plants," <i>Plant Journal</i> 17(4):453-459 (1999).
✓		HITZ, "Economic aspects of transgenic crops which produce novel products," <i>Current Opinion in Plant Biology</i> 2:135-38 (1999).
✓		HOFFMANN, "The pseudomonas aeruginosa phaG gene product is involved in the synthesis of polyhydroxyalkanoic acid consisting of medium-chain-length constituents from non-related carbon sources," <i>FEMS Microbiology Letters</i> 184:253-259 (2000).
✓		HUISMAN, et al., "Metabolism of poly(3-hydroxyalkanoates) (PHAs) by <i>Pseudomonas oleovorans</i> . Identification and sequences of genes and function of the encoded proteins in the synthesis and degradation of PHA," <i>J. Biol. Chem.</i> 266(4):2191-08 (1991).
✓		JEFFERSON, et al., "GUS fusions: β-glucuronidase as a sensitive and versatile gene fusion marker in higher plants," <i>EMBO J.</i> 6(13):3901-07 (1987).

Examiner's Signature	<i>Stuart Baum</i>	Date Considered	10/1/02
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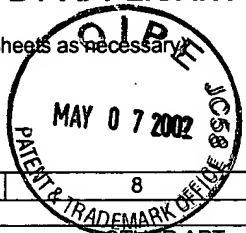
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		Examiner Name	
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✓		KATO, et al., "Production of a novel copolyester of 3-hydroxybutyric acid with a medium-chain-length 3-hydroxyalkanoic acids by <i>Pseudomonas</i> sp. 61-3 from sugars," <i>Appl. Microbiol. Biotechnol.</i> 45:363-70 (1996).
✓		KHOUDI, et al., "An alfalfa rubisco small subunit homologue shares <i>cis</i> -acting elements with the regulatory sequences of the <i>RbcS-3A</i> gene from pea," <i>Gene</i> 197:343-51 (1997).
✓		KYOZUKA, et al., "Anaerobic induction and tissue-specific expression of maize <i>Adh1</i> promoter in transgenic rice plants and their progeny," <i>Mol. Gen. Genet.</i> 228(1-2):40-48 (1991).
✓		LEE, et al., "Biosynthesis of copolyesters consisting of 3-hydroxybutyric acid and medium-chain-length 3-hydroxyalkanoic acids from 1,3-butanediol or from 3-hydroxybutyrate by <i>Pseudomonas</i> sp. A33," <i>Appl. Microbiol. Biotechnol.</i> 42: 901-909 (1995).
✓		LIEBERGESELL & STEINBÜCHEL, "Cloning and nucleotide sequences of genes relevant for biosynthesis of poly(3-hydroxybutyric acid) in <i>Chromatium vinosum</i> strain D," <i>Eur. J. Biochem.</i> 209:135-50 (1992).
✓		MADISON & HUISMAN, "Metabolic engineering of Poly(3-Hydroxyalkanoates): From DNA to Plastic," <i>Microbiology and Molecular Biology Reviews</i> 63:21-53 (1999).
✓		MCELROY, et al., "Isolation of an efficient actin promoter for use in rice transformation," <i>Plant Cell.</i> 2(2):163-71 (1990).
✓		MEDBERRY, et al., "Intra-chromosomal rearrangements generated by Cre-lox site-specific recombination," <i>Nucl. Acids Res.</i> 23(3):485-90 (1995).
✓		MOLONEY, et al., "High efficiency transformation of <i>Brassica napus</i> using <i>Agrobacterium</i> vectors," <i>Plant Cell Reports</i> 8:238-42 (1989).
✓		ODELL, et al., "Identification of DNA sequences required for activity of the cauliflower mosaic virus 35S promoter," <i>Nature</i> 313(6005):810-12 (1985).

Examiner's Signature	<i>Steve Brown</i>	Date Considered	01/1/02
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✓ B		PANG, et al., "An improved green fluorescent protein gene as a vital marker in plants," <i>Plant Physiol.</i> 112:893-900 (1996).	
✓		PEOPLES & SINSKEY, "Fine structural analysis of the <i>Zoogloea ramigera phbA-phbB</i> locus encoding β -ketothiolase and acetoacetyl-CoA reductase: nucleotide sequence of <i>phbB</i> ," <i>Molecular Microbiol.</i> 3(3):349-57 (1989).	
✓		PEOPLES & SINSKEY, "Poly- β -hydroxybutyrate in <i>Alcaligenes eutrophus</i> H16," <i>J. Biol. Chem.</i> 264:15293-97 (1989).	
✓		PEOPLES & SINSKEY, "Poly- β -hydroxybutyrate (PHB) Biosynthesis in <i>Alcaligenes eutrophus</i> H16," <i>J. Biol. Chem.</i> 264(26):15298-303 (1989).	
✓		PEOPLES, et al. "Biosynthetic Thiolase from <i>Zoogloea ramigera</i> ," <i>J. Biol. Chem.</i> 262(1):97-102 (1987).	
✓		PERLER, "Inbase, the New England biolabs intein database," <i>Nucleic Acids Research</i> 27:346-347 (1999).	
✓		PERLER, et al., "Protein splicing and autoproteolysis mechanics," <i>Current Opinion in Chemical Biology</i> 1:292-299 (1997).	
✓		PERLER, et al., "Protein splicing elements: inteins and exteins—a definition of terms and recommended nomenclature," <i>Nucleic Acids Research</i> 22:1125-1127 (1994).	
✓		PLANT, et al., "Regulation of an <i>Arabidopsis</i> oleosin gene promoter in transgenic <i>Brassica napus</i> ," <i>Plant Mol. Biol.</i> 25(2):193-205 (1994).	
✓		REHM, et al., "A new metabolic link between fatty acid <i>de Novo</i> synthesis and polyhydroxyalkanoic acid synthesis," <i>J. Biol. Chem.</i> 273:24044-51 (1998).	

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✓		ROWLEY & HERMAN, "The upstream domain of soybean oleosin genes contains regulatory elements similar to those of legume storage proteins," <i>Biochim. Biophys. Acta.</i> 1345(1):1-4 (1997).	
✓		SATO, et al., "Primary structures of the genes, faoA and faoB, from <i>Pseudomonas fragi</i> B-0771 which encode the two subunits of the HDT multienzyme complex involved in fatty acid β -oxidation," <i>J. Biochem.</i> 111:8-15 (1992).	
✓		SHEEN, "Protein phosphatase activity is required for light-inducible gene expression in maize," <i>J. EMBO</i> 12:3497-505 (1993).	
✓		SLIGHTOM, et. al., <i>Proc. Natl. Acad. Sci.</i> 80 USA:1897-901 (1983).	
✓		SUDESH et., al., "Synthesis, structure and properties of polyhydroxyalkanoates: biological properties," <i>Prog. Polym. Sci.</i> 25: 1503-1555 (2000).	
✓		SUH, et al., "Structure of the amplified 5-enolpyruvylshikimate-3-phosphate synthase gene in glyphosate-resistant carrot cells," <i>Plant Mol. Biol.</i> 22:195-205 (1993).	
✓		TELENTI, et al., "The Mycobacterium xenopi GyrA protein splicing element: characterization of a minimal intein," <i>J. Bacteriol.</i> 179:6378-6382 (1997).	
✓		TIMM & STEINBÜCHEL, "Cloning and molecular analysis of the poly(3-hydroxyalkanoic acid) gene locus of <i>Pseudomonas aeruginosa</i> PAO1," <i>Eur. J. Biochem.</i> 209(1):15-30 (1992).	
✓		TRIGGS-RAINE & LOEWEN, "Physical characterization of katG, encoding catalase HPI of <i>Escherichia coli</i> ," <i>Gene</i> 52:121-28 (1987).	
✓		XU & PERLER, "The mechanism of protein splicing and its modulation by mutation," <i>EMBO Journal</i> 15:5146-5153 (1996).	

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		Filing Date	February 9, 2001
		First Named Inventor	Kristi D. Snell
		Group Art Unit	1632
		Examiner Name	
Sheet 8 of 8	Attorney Docket Number	MBX 038	

OTHER ART - NON PATENT LITERATURE DOCUMENTS			
Examiner's Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	
B		XU, et al., "Protein splicing: an analysis of the branched intermediate and its resolution by succinimide formation," <i>EMBO Journal</i> 13:5517-522 (1994).	

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